



Noviembre 2023

Minería – Orquestando las tecnologías en un entorno desafiante



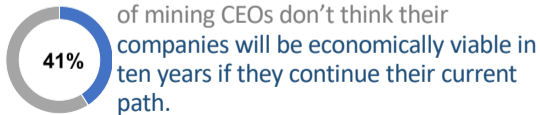

CISCO
MINING | 20
SUMMIT | **23**

¿Está la industria preparada para la creciente demanda?

Financial metrics of world's top 40 miners, 2022



| | | | |
|---|--|--|---|
| <p>USD 711bn</p> <p>Revenues (excluding trading)</p> | <p>29%</p> <p>EBITDA margin</p> | <p>USD 1.2trn</p> <p>Market capitalization</p> <p>+2% from 2021</p> | <p>USD 1.3trn</p> <p>Total assets</p> <p>+4% from 2021</p> |
|---|--|--|---|



“The era of critical minerals has arrived, and it's the most momentous change the industry has seen in decades”– PwC, June 2023

A central image showing a human hand and a white robotic hand reaching towards each other, with their index fingers touching at a bright, glowing blue point. The background is dark blue with a vertical light blue beam and some floating particles.

¿Cómo las tecnologías están impactando este entorno industrial?



Minería – Tendencias tecnológicas



Cybersecurity

By 2024, **50%** of mining organizations will deploy next-generation cybersecurity.



Cloud

By 2025, **50%** of mine sites migrate critical operational activities to the cloud.



Analytics

By 2026, 70% of miners will utilize analytics platforms to identify and address supply chain constraints.



Digital Twins

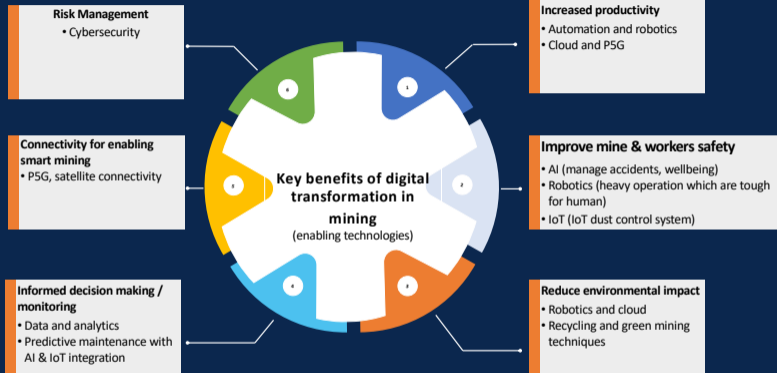
By 2027, 30% of all mining operations will operate digital twins.



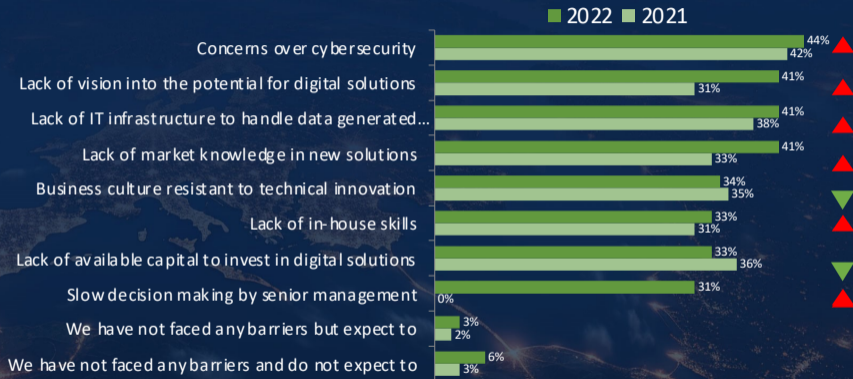
Smart Sensors (IoT)

By 2027, 75% of organizations will have retrofitted critical major equipment with smart sensors.

Beneficios claves que habilitan las tecnologías



Barreras que (aparentemente) obstaculizan la adopción tecnológica en minería.



The VUCA Report

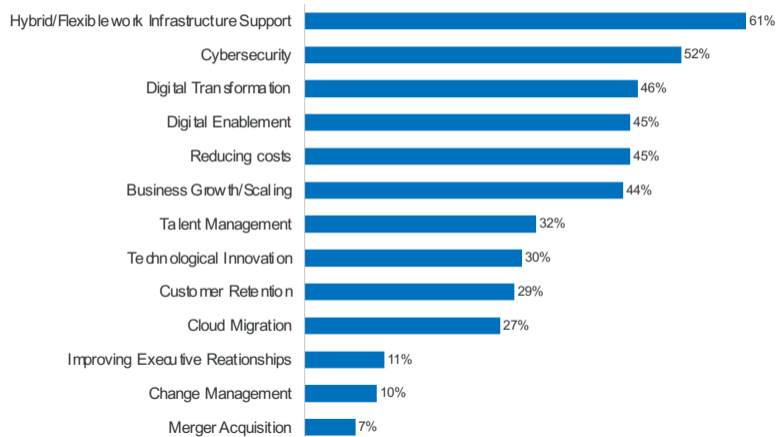
**Turbulence
Ahead...**

**Volatility
Uncertainty
Complexity
Ambiguity**

**ARE YOU
READY?**

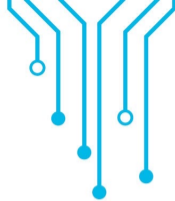


Prioridades claves de los CIOs en entorno VUCA



¿Cómo orquestamos?





¿Tecnologías que resuelven tus desafíos comerciales más críticos?

Business problem with known technology or service solution but need help to realize

technology or service issues impacting business

Business opportunity delivered by technologies that needs a service partner

Existing approach to technologies **not delivering** for the business

Business problem that can be solved with technologies but not sure where to start



Comienza por lo fundamental!



The move to true hybrid IT:

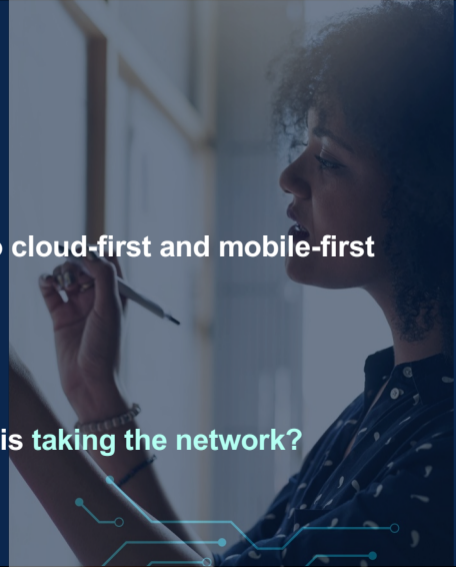
- Plan to deploy EDGE SERVICES- 5G
- From software-defined to INTENT-BASED NETWORKING
- Security BY DESIGN
- AIOPS, AUTOMATION and orchestration as fundamentals of operations
- Making hybrid network OPERATIONS easier



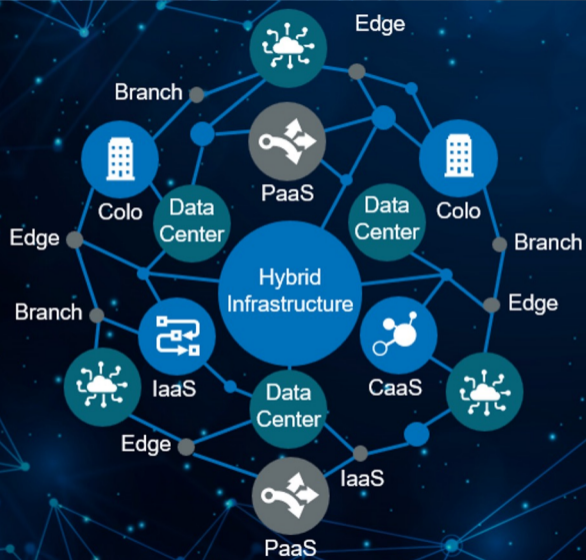
The rapid move to cloud-first and mobile-first strategies



Where cloud-first is taking the network?



The network forms the fabric and foundation of a cloud-to-edge digital business and is a critical enabler of business transformation



6 Pasos

To orchestrate your Hybrid Network Infrastructure



Diagnosis

- Cultural Hacking
- Assessment
- Benchmark

Digital Model

- Arch. Hybrid
- Operational Model, Automation, Observability, Predictive



Resources

- Understand the costs
- Outsourcing/Partner
- Talent Upskilling&Reskillig
- Mindset



Migration

- Pilot (MVP)
- Transition&Migrate



Technologies

- Legacy/New On Prem/Cloud
- AIOps
- Software Lifecycle Management/EAs



Operate

- APIs
- Report&Insights
- Diagnosis
- Assesmetnt
- Next Stage

Thank you

